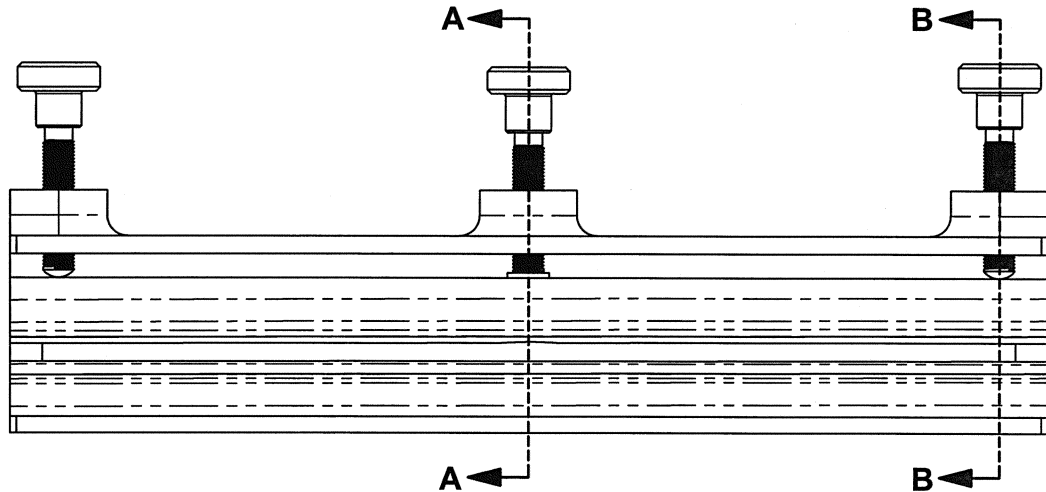


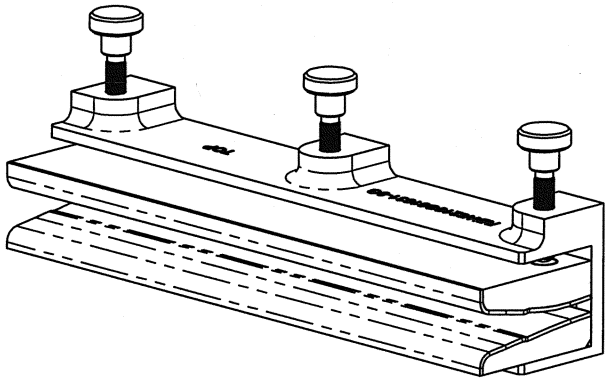
ITEM #	QTY	PART #	PART TITLE
-1	1	RBW6210G01631-8G-1	PUSH SCREW
-2	2	RBW6210G01631-8G-2	LOCKING SCREW
-3	1	RBW6210G01631-8G-3	SUPPORT ASSY
-5	1	RBW6210G01631-8G-5	UPPER PLATE ASSY
-9	1	RBW6210G01631-8G-9	LOWER PLATE ASSY
12	3	McMaster#90294A804 OR EQUIV.	316 SS PHILLIPS FLAT HEAD WOOD SCREW #10 X 5/8" LG.
13	1	McMaster#91400A170 OR EQUIV.	18-8 SS PHILLIPS ROUNDED HEAD SCREW #6-40 X 1/4" LG.
14	1	McMaster#98017A615 OR EQUIV.	18-8 SS WASHER 0.149" ID. X 0.375" OD. X 0.032" THK.
15	1	NAS1149-C0463R	WASHER



**RBW6210G01631-8G M/R BLADE LOCKING PROTECTION TOOL**

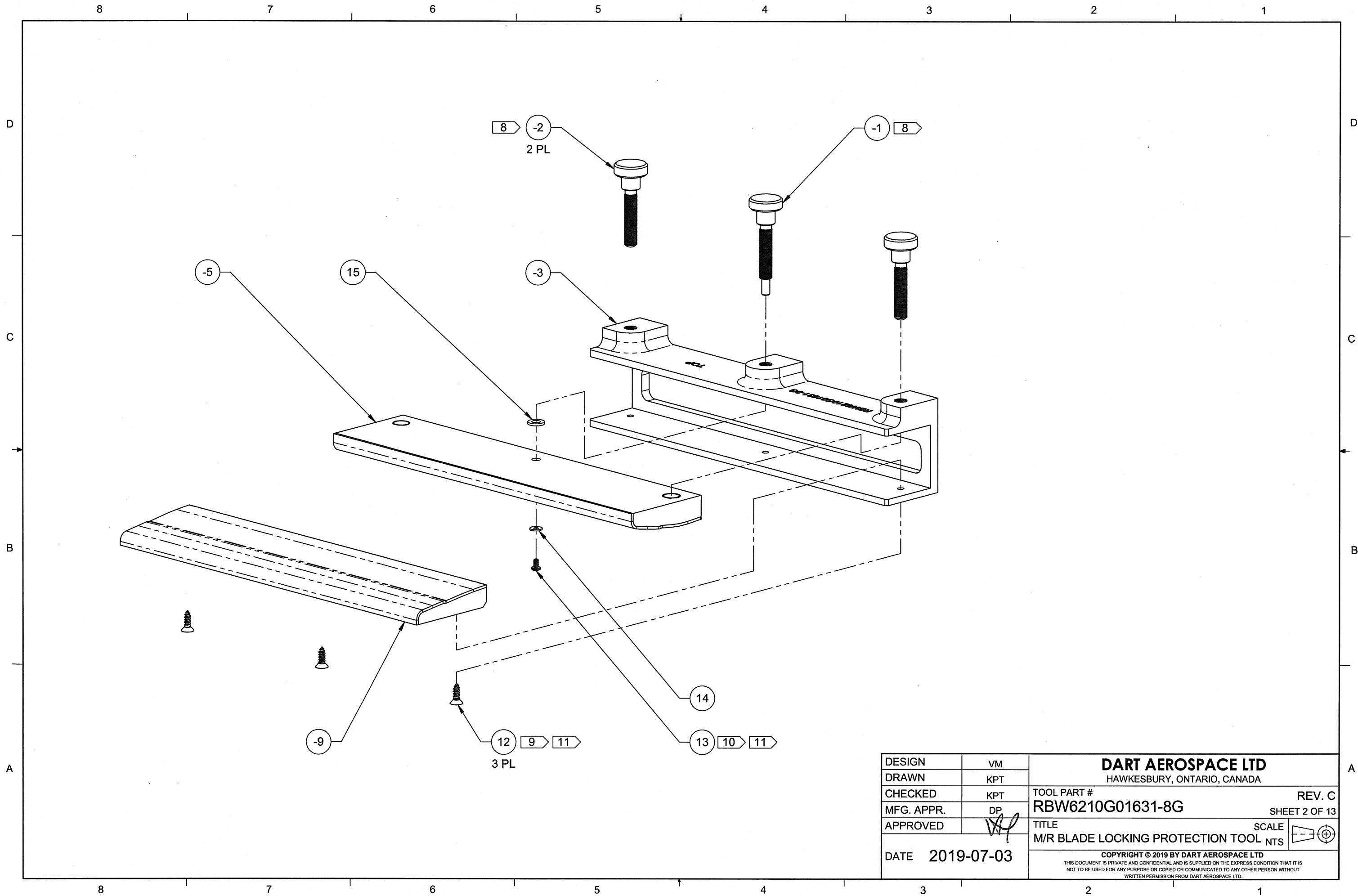
**SECTION A-A**

**SECTION B-B**

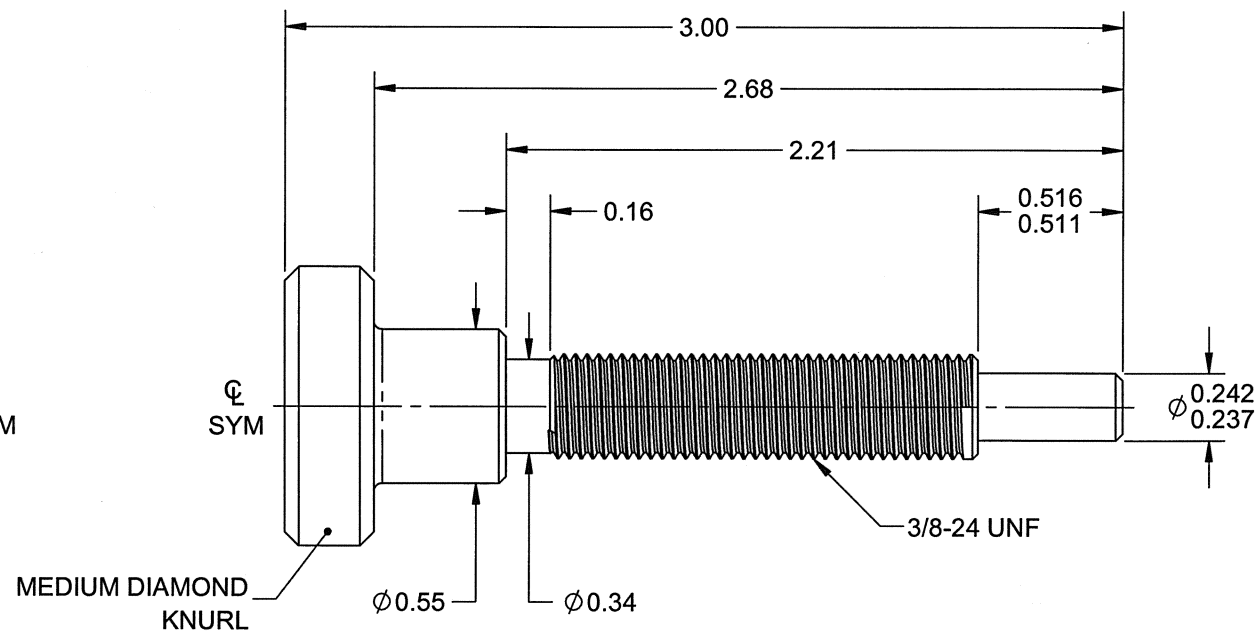
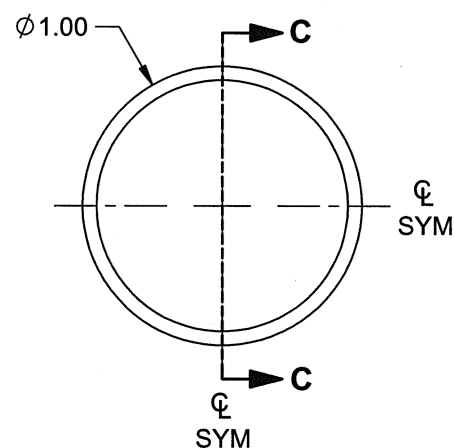
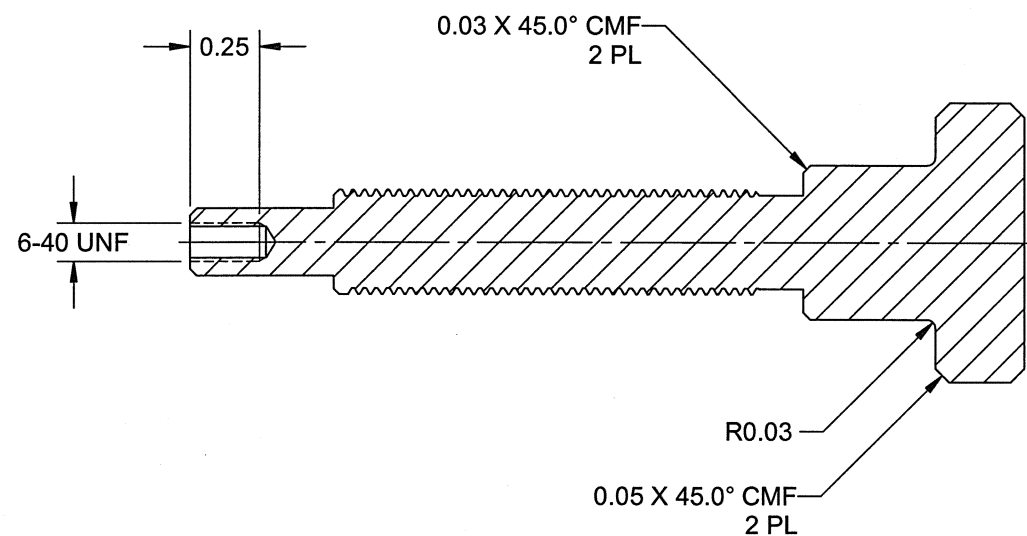
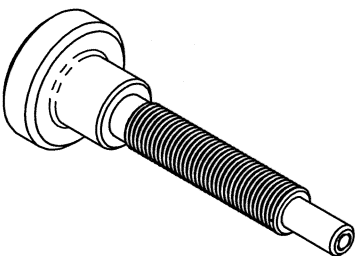


- NOTES:
- 1) MATERIAL: N/A
  - 2) HEAT TREAT: N/A
  - 3) FINISH: N/A
  - 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
  - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 6) IDENTIFICATION: N/A
  - 7) ASSEMBLE AS SHOWN
  - 8) APPLY NICKEL ANTI-SEIZE LOCTITE LB 771 ON THREADS OF ITEMS -1 AND -2 THEN ASSEMBLE WITH ITEM -3, AND REMOVE EXCESS
  - 9) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEM 12 THEN ASSEMBLE WITH ITEM -9, AND REMOVE EXCESS
  - 10) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEM 13 THEN ASSEMBLE WITH ITEM -1, AND REMOVE EXCESS
  - 11) INSTALL ITEMS 12 AND 13 HAND TIGHT
  - 12) THE TOOL ASSY MUST BE PACKAGED WITH A DESICCANT BAG INTO A TIGHT FITTING SEALED PLASTIC BAG

C	UPDATED DRAWING TEMPLATE		19-794	KPT
	ITEM 12 WAS McMaster#91771A829 OR EQUIV. IS McMaster#90294A804 OR EQUIV.			
	-1, -2 DIM WAS 0.16 REF IS 0.16. DIM WAS Ø0.34 REF IS Ø0.34.			
	-4 DIM WAS R0.20 IS R0.25. DIM WAS R0.21 IS R0.25			
B	-9 REMOVED ITEM 17 McMaster#91732A231 OR EQUIV.		19-521	KPT
	-10 DIM WAS TAP FOR #10-32 HELICAL INSERT ∇ 0.35 IS Ø0.109 ∇ 0.45			
	-6 PART TITLE WAS RBW6210G01631-8G-5 UPPER PLATE IS RBW6210G01631-8G-6 UPPER PLATE. HOLE DIM WAS Ø0.5550/0.5545 2 PL IS Ø0.516 2 PL			
	-8 DIM WAS Ø0.5555/0.5550 IS Ø0.50			
A	-9 ITEM 17 PART# WAS McMaster#91723A231 OR EQUIV. IS McMaster#91732A231 OR EQUIV.		18-655	KPT
	NEW ISSUE			
REV.	DESCRIPTION		ECN #	BY
DESIGN	VM	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	KPT			
CHECKED	KPT	TOOL PART #		
MFG. APPR.	DP	RBW6210G01631-8G		
APPROVED		REV. C		
DATE 2019-07-03		TITLE		SHEET 1 OF 13
		M/R BLADE LOCKING PROTECTION TOOL		
		SCALE NTS		
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DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 2 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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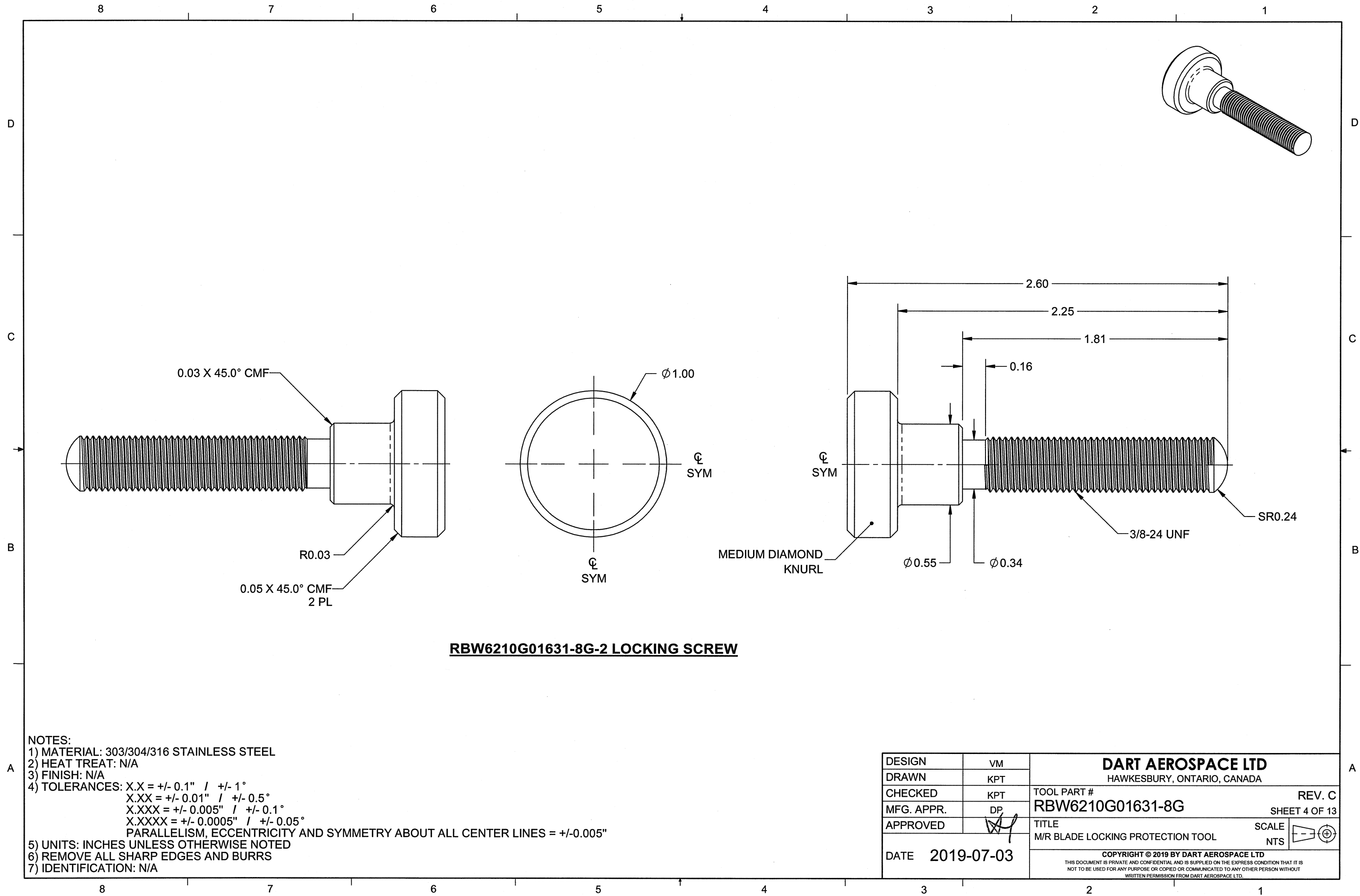
**SECTION C-C**

**RBW6210G01631-8G-1 PUSH SCREW**

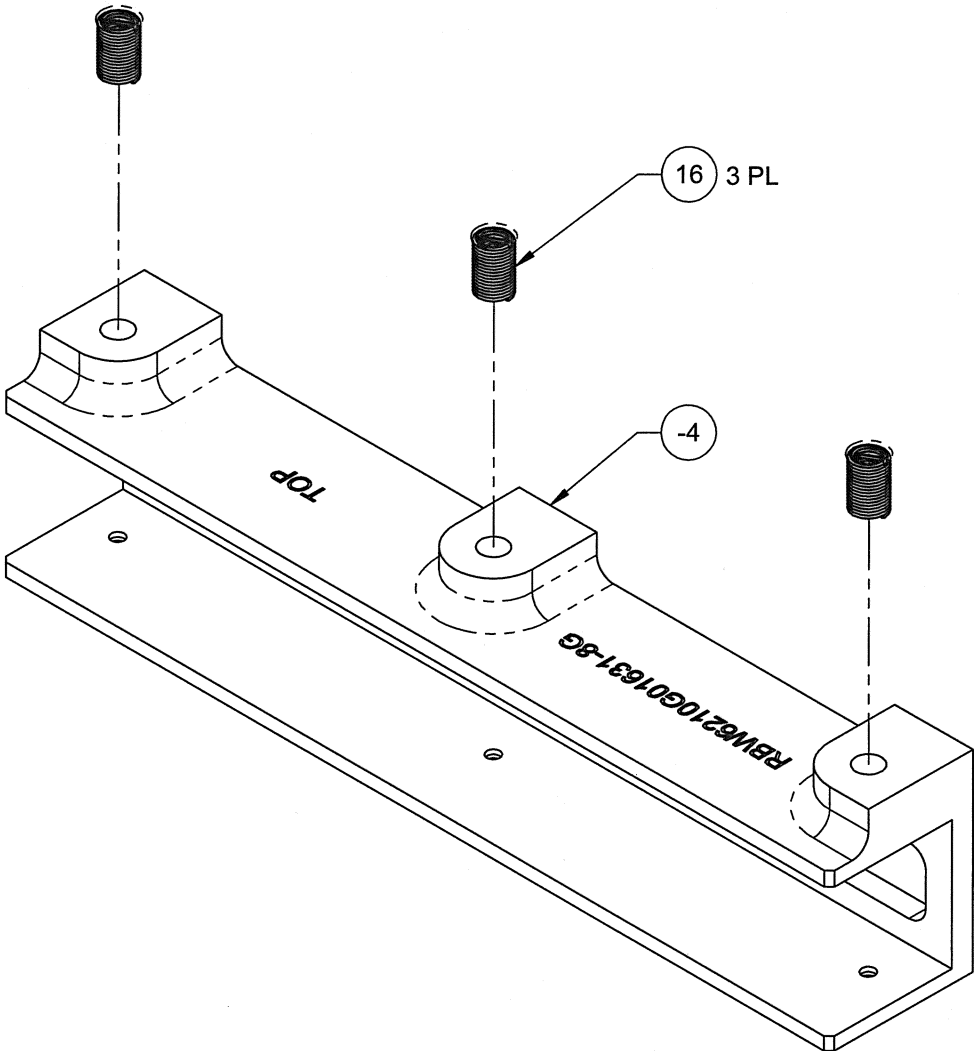
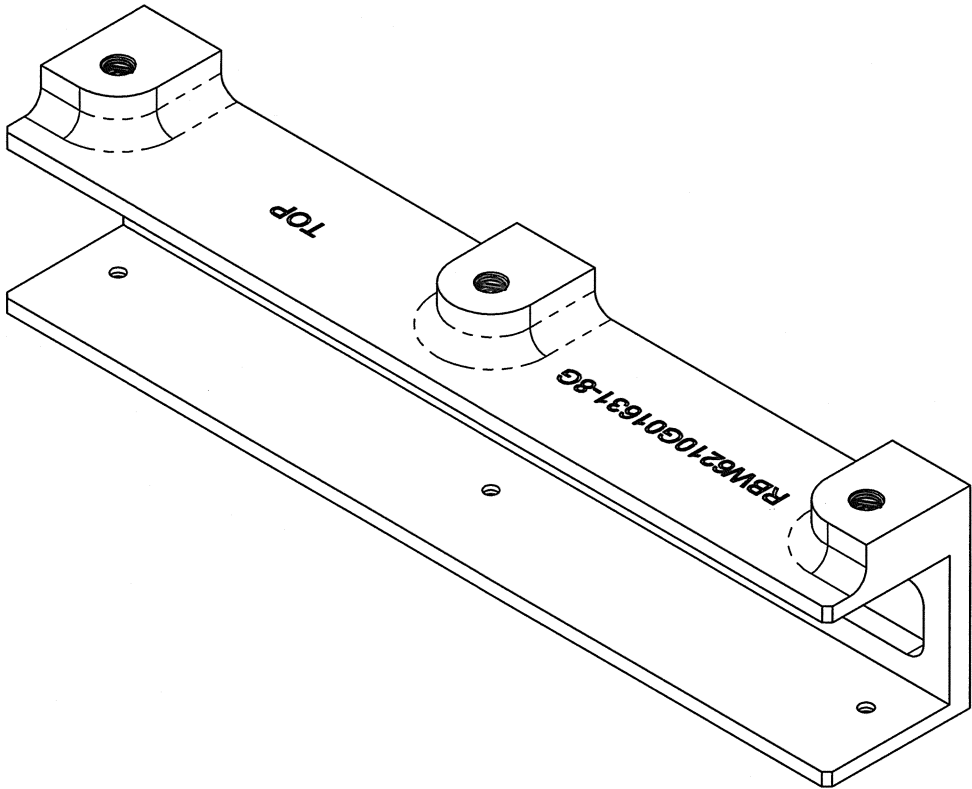
**NOTES:**

- 1) MATERIAL: 303/304/316 STAINLESS STEEL
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES AND BURRS
- 7) IDENTIFICATION: N/A

DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 3 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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ITEM #	QTY	PART #	PART TITLE
-4	1	RBW6210G01631-8G-4	SUPPORT
16	3	McMaster#91732A749 OR EQUIV.	SS HELICAL INSERT 3/8"-24 X 3/4" LG.

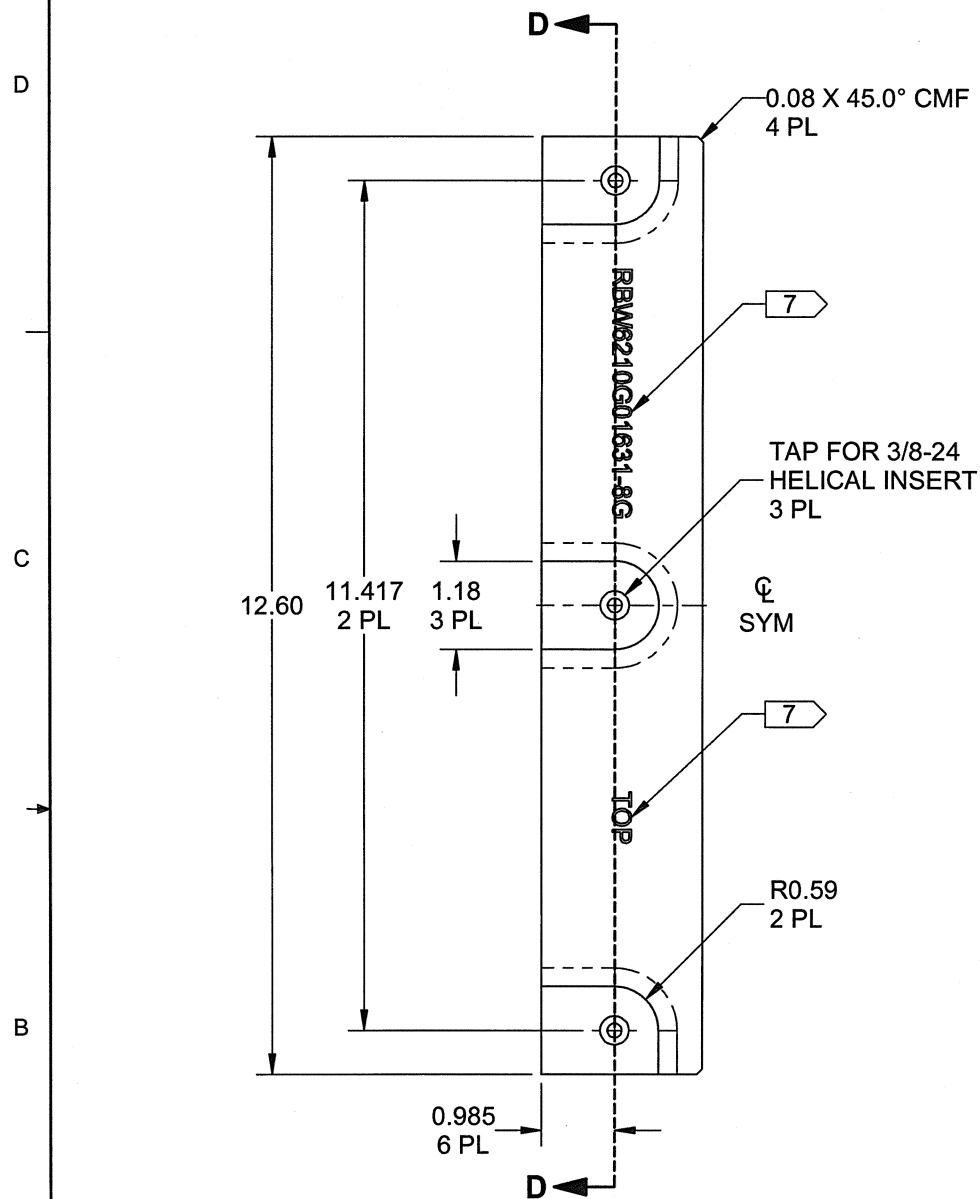


**RBW6210G01631-8G-3 SUPPORT ASSY**

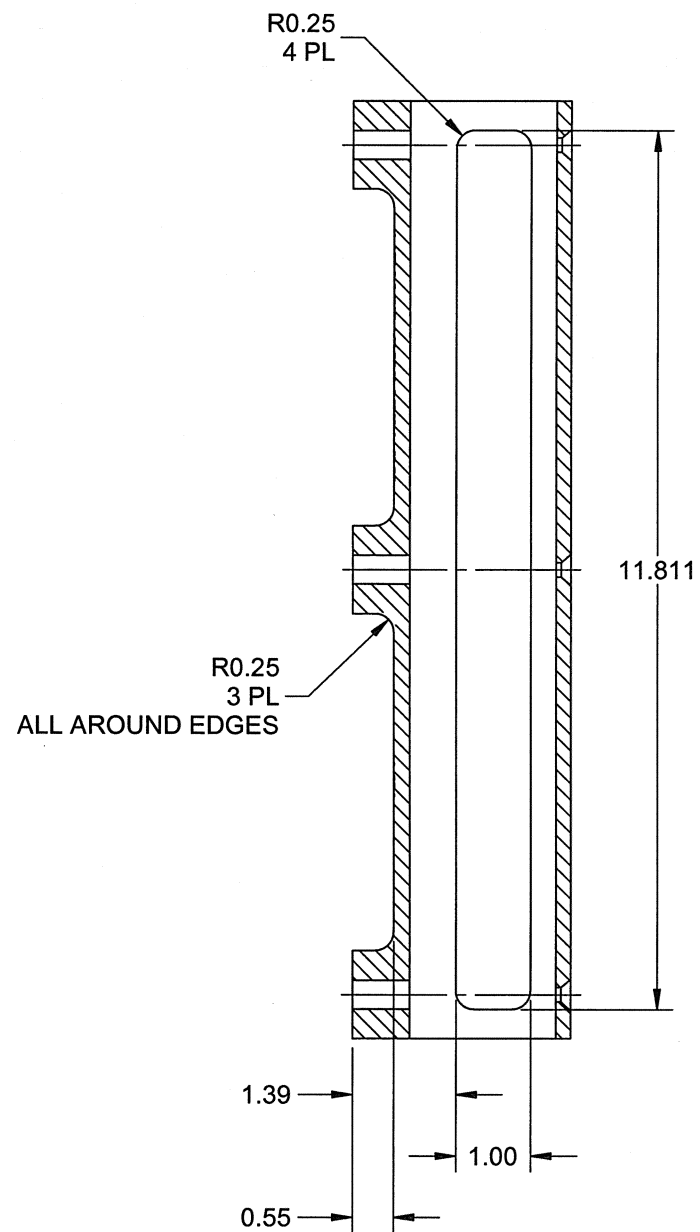
NOTES:  
1) MATERIAL: N/A  
2) HEAT TREAT: N/A  
3) FINISH: N/A  
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"  
5) UNITS: INCHES UNLESS OTHERWISE NOTED  
6) IDENTIFICATION: N/A  
7) ASSEMBLE AS SHOWN

DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 5 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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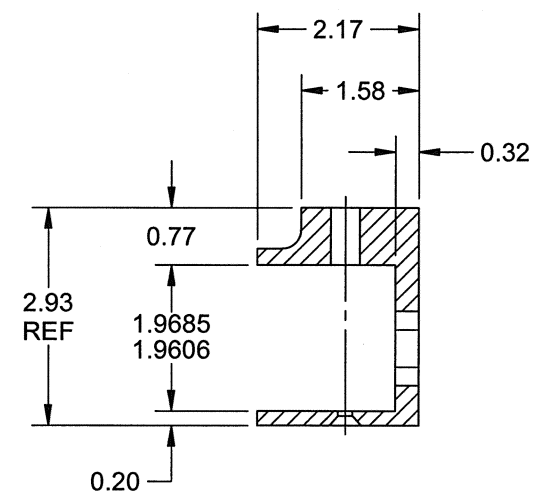
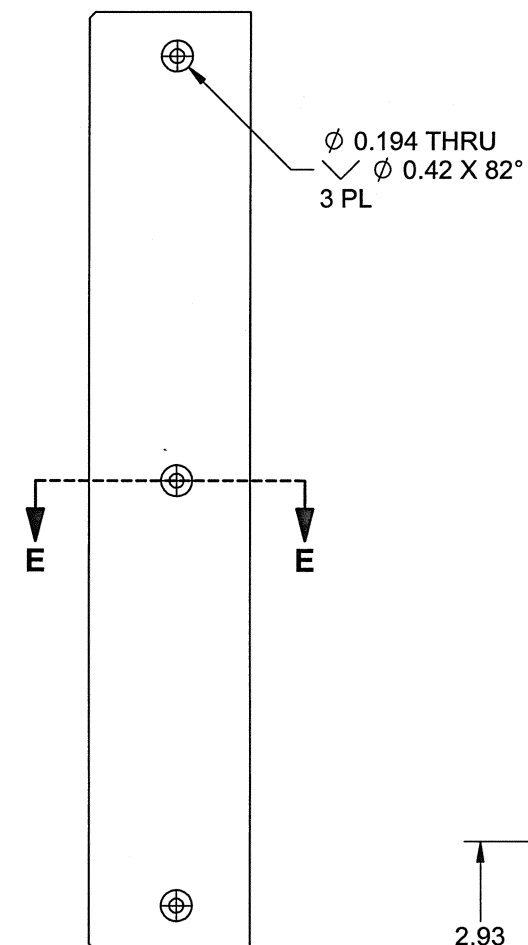
8 7 6 5 4 3 2 1



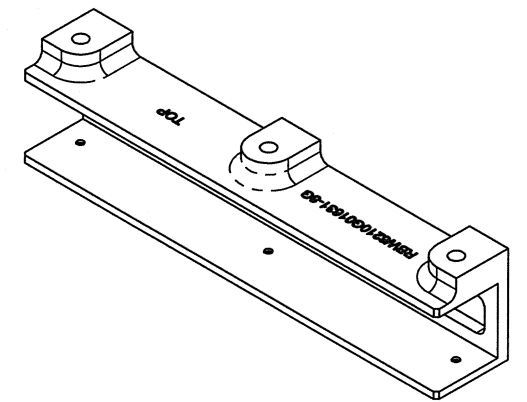
**RBW6210G01631-8G-4 SUPPORT**



**SECTION D-D**



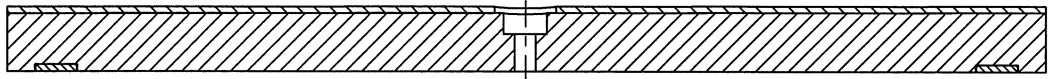
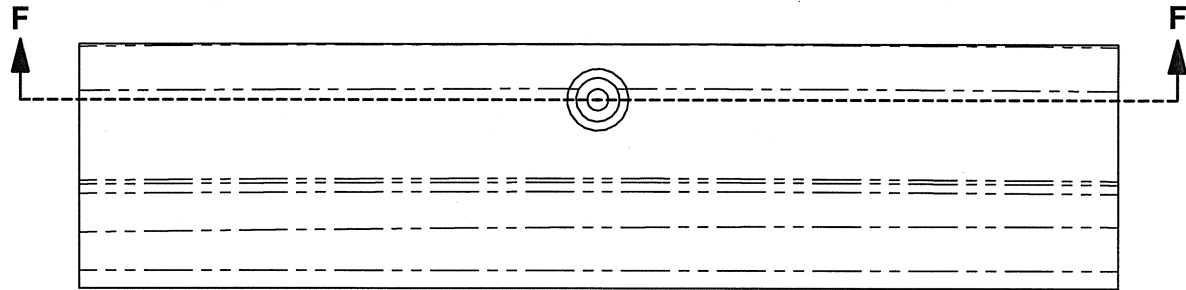
**SECTION E-E**



- NOTES:
- 1) MATERIAL: 6061-T6 / 7075-T6
  - 2) HEAT TREAT: N/A
  - 3) FINISH: ANODIZE RED PER MIL-A-8625 TYPE 2 CLASS 2
  - 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
  - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 6) REMOVE ALL SHARP EDGES AND BURRS
  - 7) IDENTIFICATION: MACHINE ENGRAVE OR DOT MARK, AS SHOWN

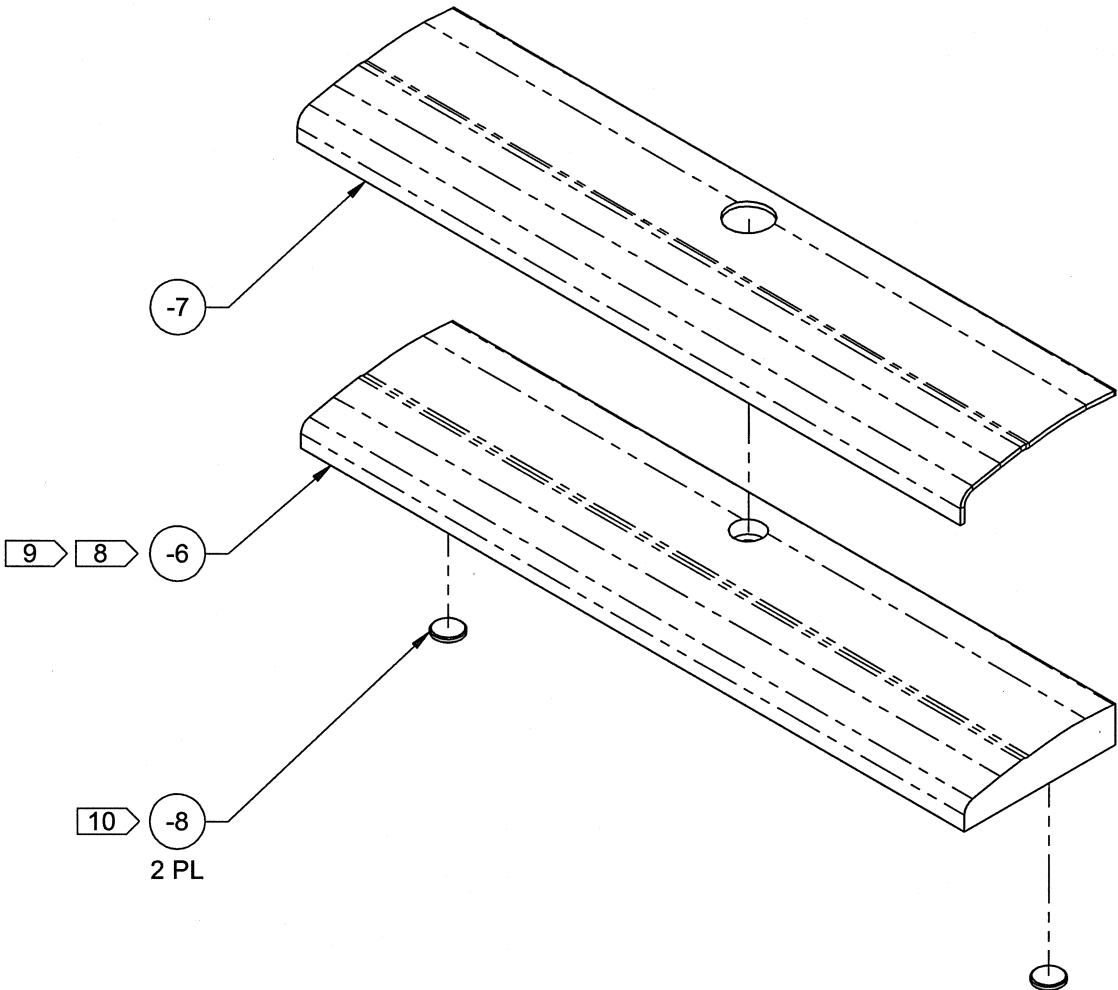
DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 6 OF 13
APPROVED		TITLE	SCALE
		M/R BLADE LOCKING PROTECTION TOOL	NTS
DATE	2019-07-03	COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

ITEM #	QTY	PART NUMBER	PART TITLE
-6	1	RBW6210G01631-8G-6	UPPER PLATE
-7	1	RBW6210G01631-8G-7	UPPER PLATE PROTECTION
-8	2	RBW6210G01631-8G-8	REACTION



SECTION F-F

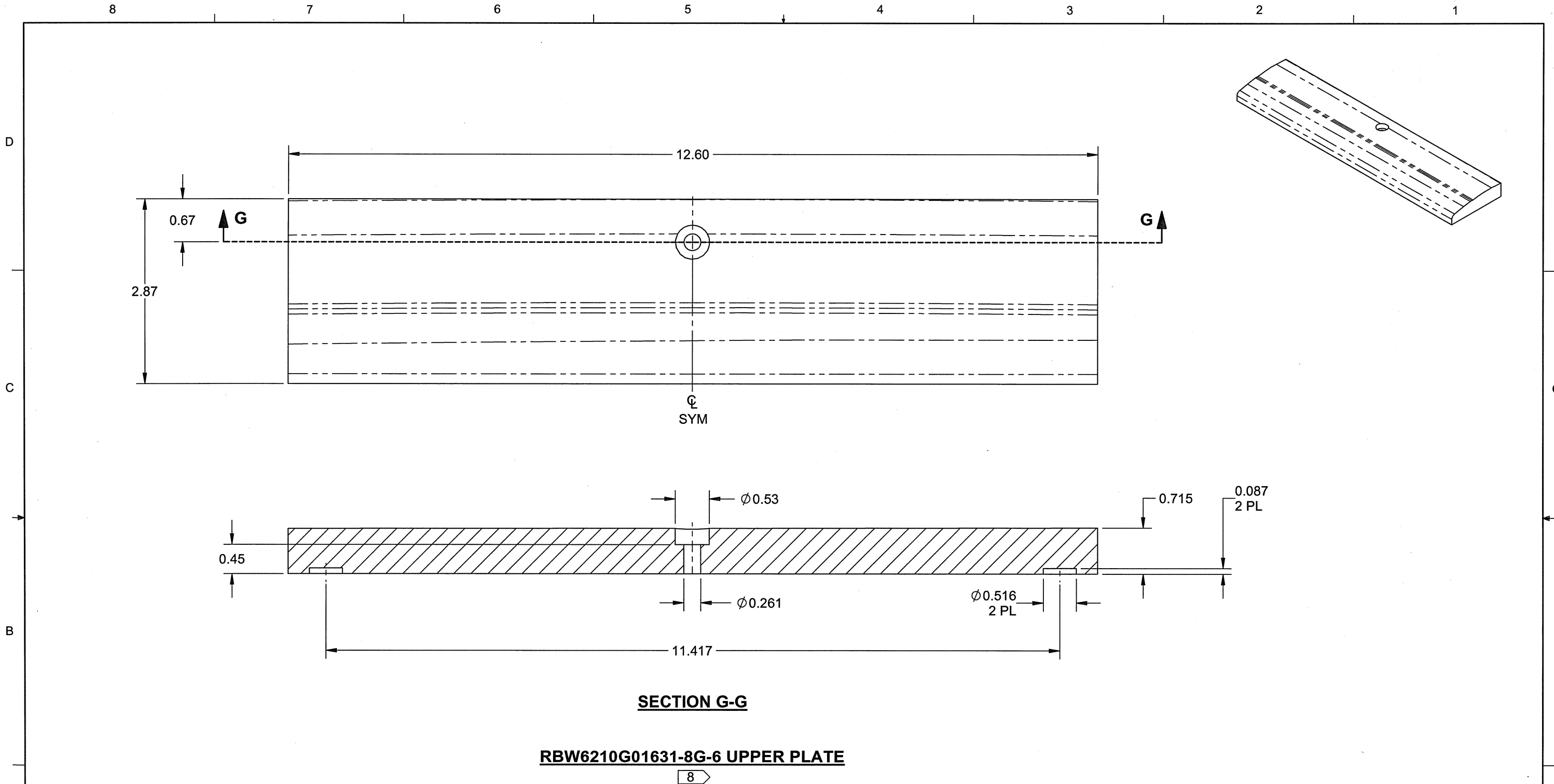
**RBW6210G01631-8G-5 UPPER PLATE ASSY**



NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) IDENTIFICATION: N/A
- 7) ASSEMBLE AS SHOWN
- 8) ASSEMBLE ITEM -7 ADHESIVE SIDE ON ITEM -6 AS SHOWN, AND CUT EXCESS IF NECESSARY
- 9) APPLY INSTANT ADHESIVE LOCTITE 495 BETWEEN THE SURFACES OF ITEM -7 AND ITEM -6 IF NECESSARY, AND REMOVE EXCESS
- 10) APPLY INSTANT ADHESIVE LOCTITE 495 BETWEEN THE SURFACES OF ITEM -8 AND ITEM -6, AND REMOVE EXCESS

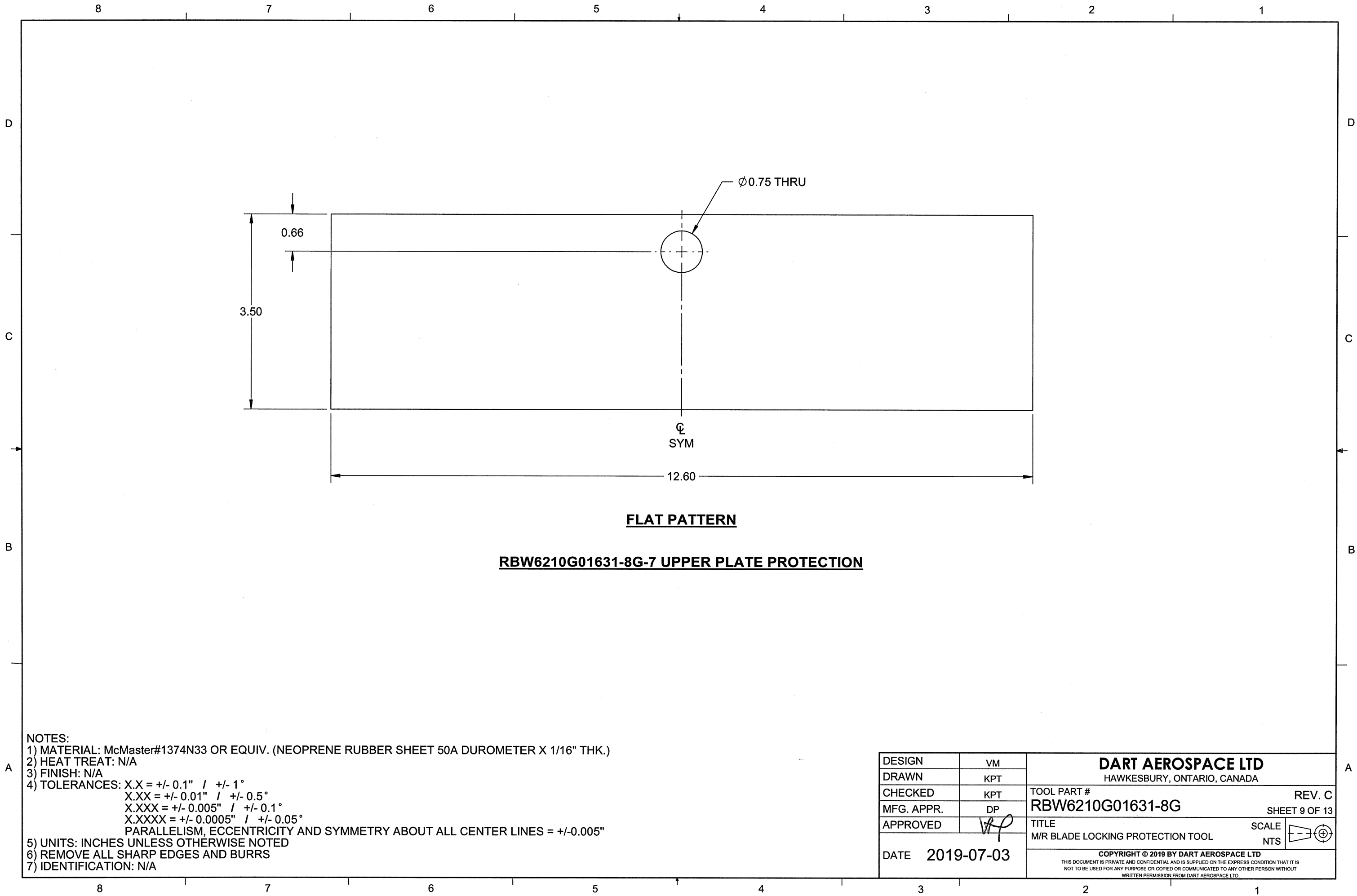
DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 7 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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NOTES:  
1) MATERIAL: UHMW  
2) HEAT TREAT: N/A  
3) FINISH: N/A  
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"  
5) UNITS: INCHES UNLESS OTHERWISE NOTED  
6) REMOVE ALL SHARP EDGES AND BURRS  
7) IDENTIFICATION: N/A  
8) ALL NON-DIMENSIONED FEATURES MUST MAINTAIN A TOLERANCE OF +/- 0.005" PER CAD FILE RBW6210G01631-8G-6 REV. C.STEP

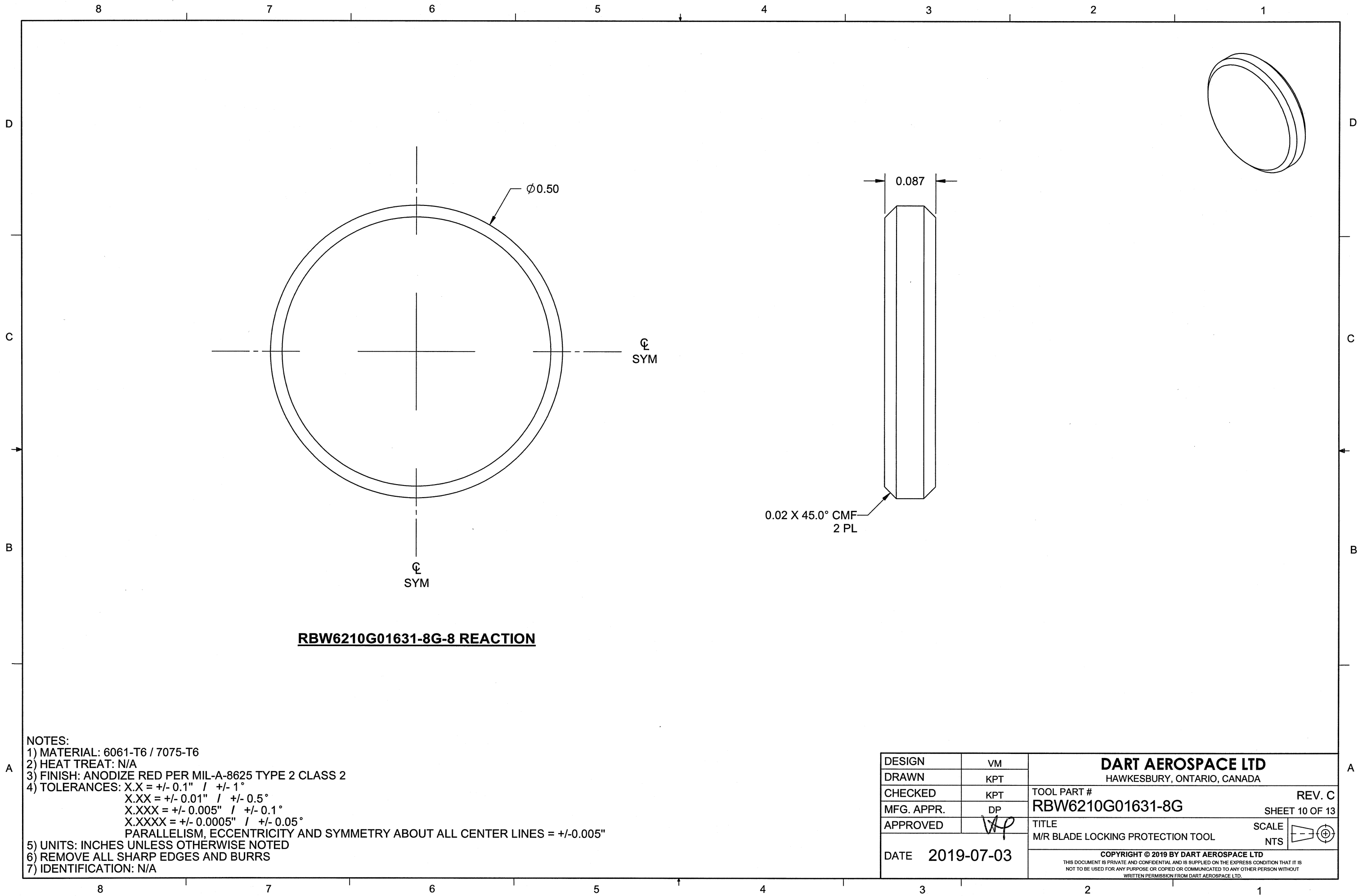
DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 8 OF 13
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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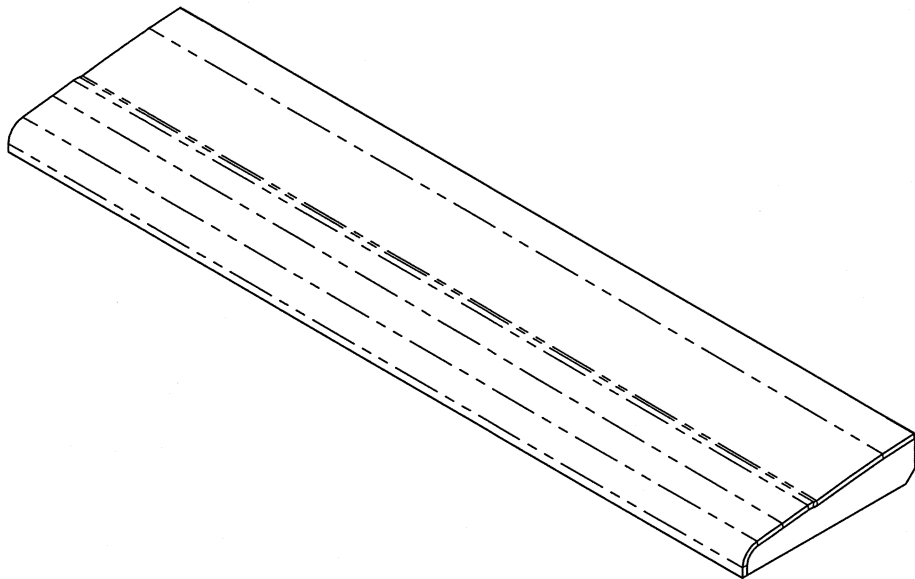


NOTES:  
1) MATERIAL: McMaster#1374N33 OR EQUIV. (NEOPRENE RUBBER SHEET 50A DUROMETER X 1/16" THK.)  
2) HEAT TREAT: N/A  
3) FINISH: N/A  
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"  
5) UNITS: INCHES UNLESS OTHERWISE NOTED  
6) REMOVE ALL SHARP EDGES AND BURRS  
7) IDENTIFICATION: N/A

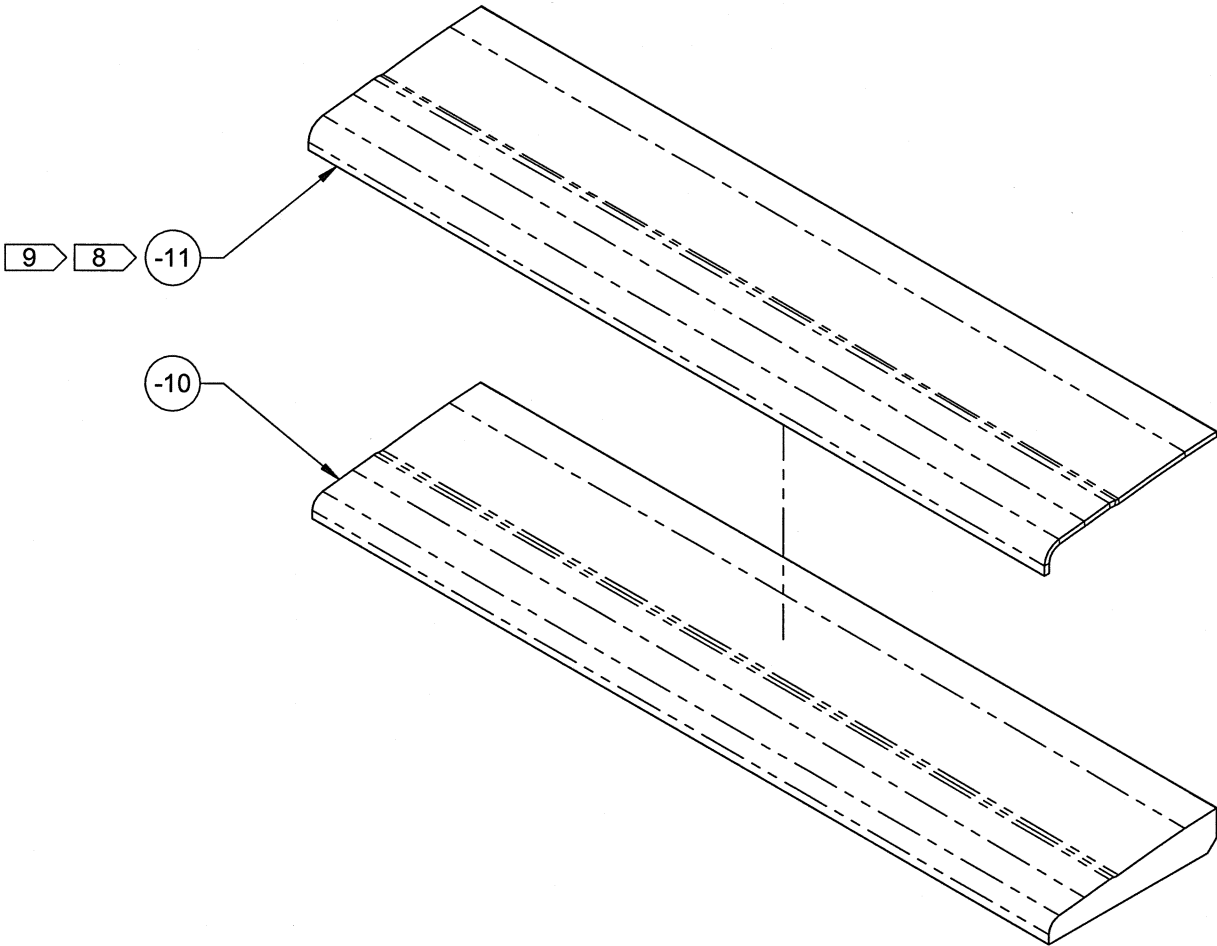
DESIGN	VM	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	RBW6210G01631-8G	SHEET 9 OF 13
APPROVED	VP	TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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ITEM #	QTY	Part #	PART TITLE
-10	1	RBW6210G01631-8G-10	LOWER PLATE
-11	1	RBW6210G01631-8G-11	LOWER PLATE PROTECTION

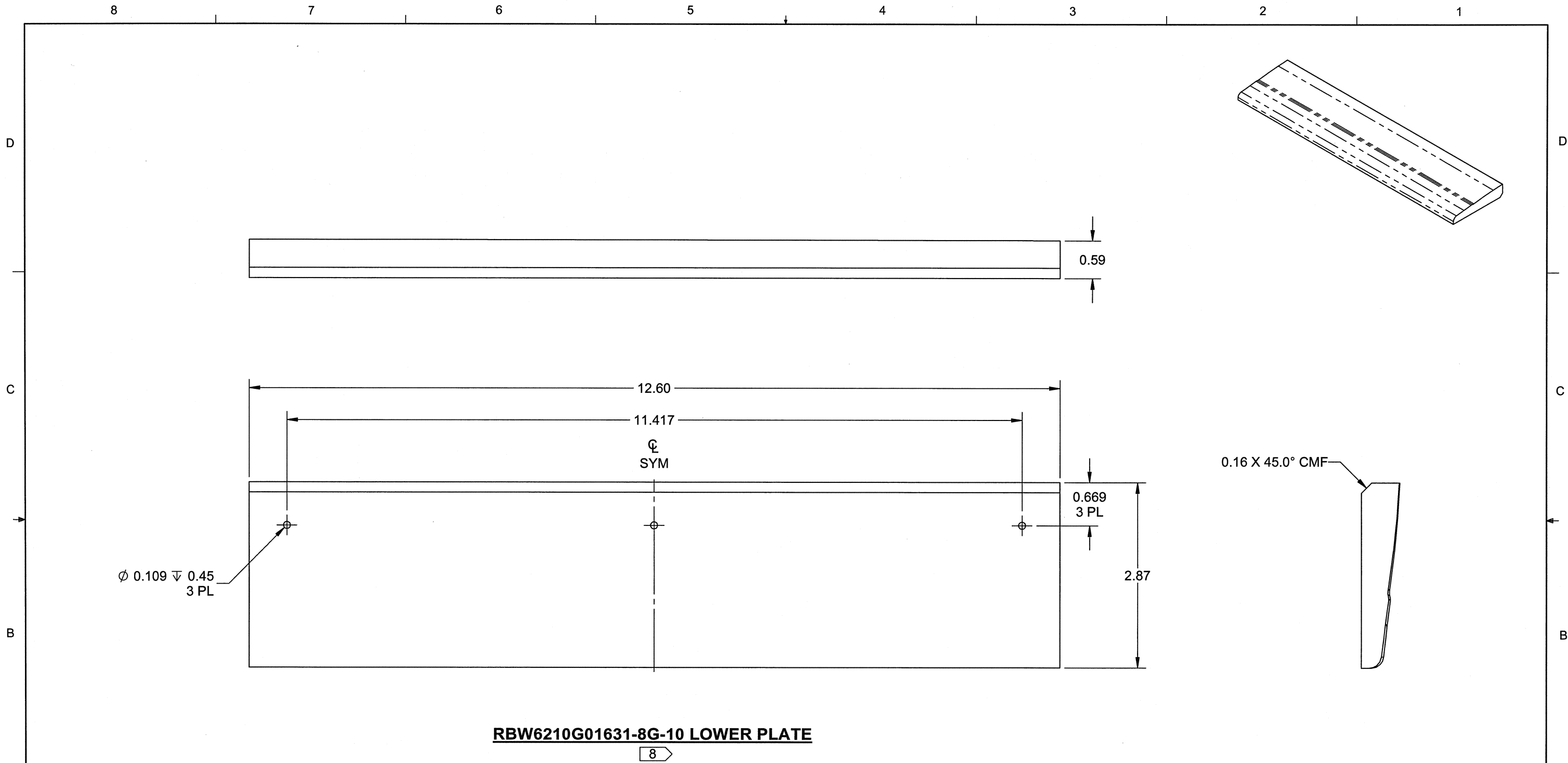


**RBW6210G01631-8G-9 LOWER PLATE ASSY**



- NOTES:
- 1) MATERIAL: N/A
  - 2) HEAT TREAT: N/A
  - 3) FINISH: N/A
  - 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
  - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 6) IDENTIFICATION: N/A
  - 7) ASSEMBLE AS SHOWN
  - 8) ASSEMBLE ITEM -11 ADHESIVE SIDE ON ITEM -10 AS SHOWN, AND CUT EXCESS IF NECESSARY
  - 9) APPLY INSTANT ADHESIVE LOCTITE 495 BETWEEN THE SURFACES OF ITEM -11 AND ITEM -10 IF NECESSARY, AND REMOVE EXCESS

DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 11 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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NOTES:

1) MATERIAL: UHMW

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"

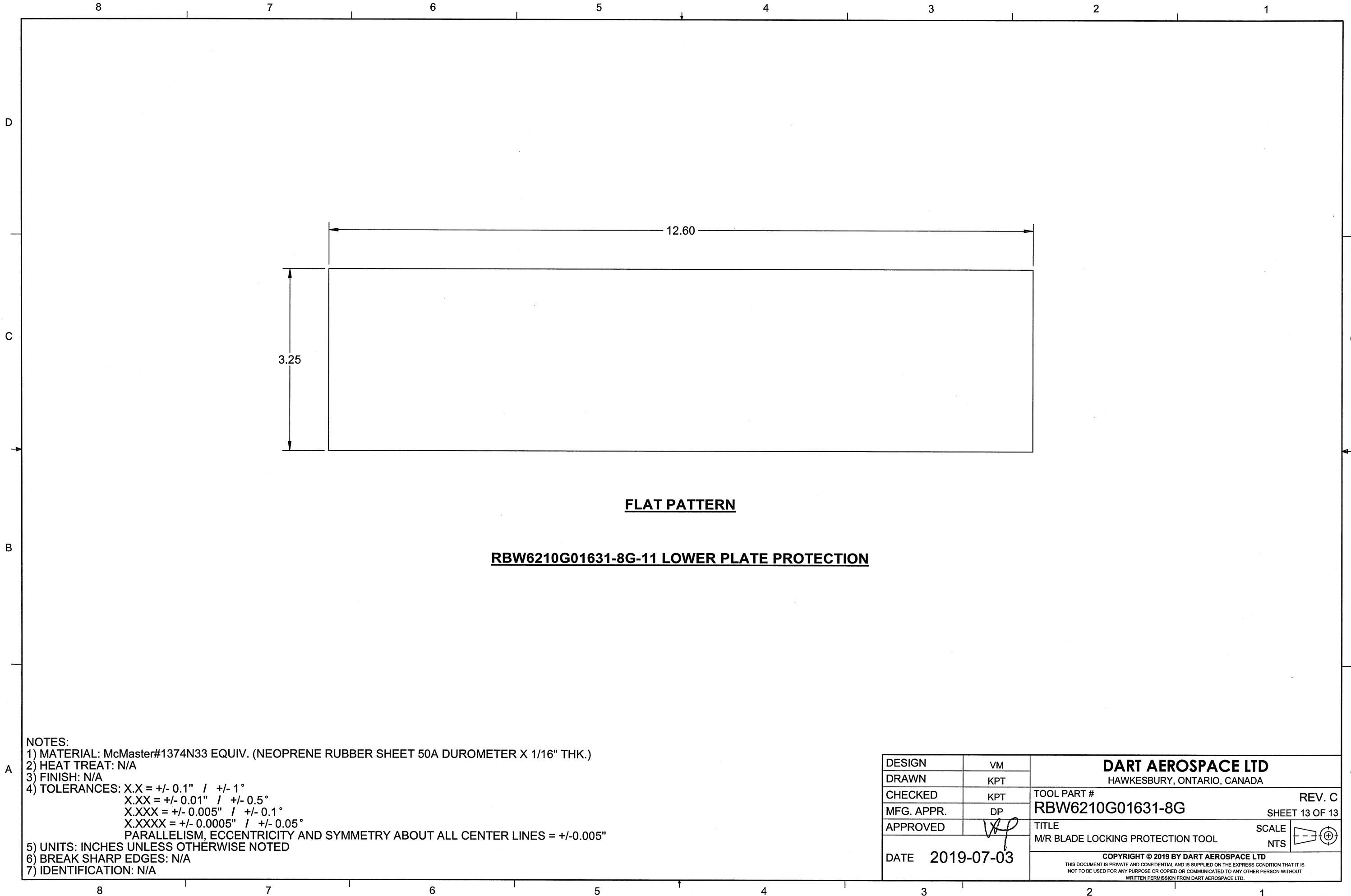
5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) REMOVE ALL SHARP EDGES AND BURRS

7) IDENTIFICATION: N/A

8) ALL NON-DIMENSIONED FEATURES MUST MAINTAIN A TOLERANCE OF +/- 0.005" PER CAD FILE RBW6210G01631-8G-10 REV. C.STEP

DESIGN	VM	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	<b>RBW6210G01631-8G</b>	SHEET 12 OF 13
APPROVED		TITLE	SCALE
DATE 2019-07-03		M/R BLADE LOCKING PROTECTION TOOL	NTS
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NOTES:  
1) MATERIAL: McMaster#1374N33 EQUIV. (NEOPRENE RUBBER SHEET 50A DUROMETER X 1/16" THK.)  
2) HEAT TREAT: N/A  
3) FINISH: N/A  
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°  
X.XX = +/- 0.01" / +/- 0.5°  
X.XXX = +/- 0.005" / +/- 0.1°  
X.XXXX = +/- 0.0005" / +/- 0.05°  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"  
5) UNITS: INCHES UNLESS OTHERWISE NOTED  
6) BREAK SHARP EDGES: N/A  
7) IDENTIFICATION: N/A

DESIGN	VM	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	KPT	TOOL PART #	REV. C
MFG. APPR.	DP	RBW6210G01631-8G	SHEET 13 OF 13
APPROVED		TITLE	SCALE
DATE		M/R BLADE LOCKING PROTECTION TOOL	NTS
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